U.S. Fruit and Vegetable Availability and Handling Charts



Foreign Agricultural Service Horticultural and Tropical Products Division

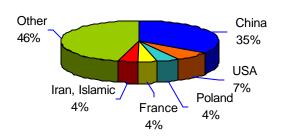
http://www.fas.usda.gov/htp August 2005

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Apple Production

World Apple Production 2004



In Metric Tons						
China	20,503,000					
USA	4,290,490					
Poland	2,500,000					
France	2,400,000					
Iran	2,350,000					
Other	26,923,452					
Total World	58,966,942					

Source: Food and Agriculture Association (FAO) of the United Nations

Apple Availability

United States

Cinica States												
Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Braeburn												
Cameo												
Fuji												
Gala												
Golden Delicious												
Granny Smith												
Pink Lady												
Red Delicious												
Empire												
Gala												
Golden Delicious												
Granny Smith												
McIntosh												
Spartan												

Six states account for 85% of the U.S. apple crop: Washington, Michigan, New York, California, Virginia, and Pennsylvania.

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canada												
Chile												
New Zealand												

Apple Handling

Grades Available

U.S. Grades

U.S. Extra Fancy

U.S. Fancy

U.S. No. 1

U.S. Utility

Combination grades-

Combinations of:

U.S. Extra Fancy and U.S. Fancy

U.S. Fancy and U.S. No. 1

U.S. No 1 and U.S. Utility are permitted when at least 50% of the apples in any lot meet the requirements of the higher grade.

Handling and Storage

Temperature: 32-34° F, 0-1. 1°C

Relative Humidity: 90-95%

Mist: No

Typical Shelf Life: 90-240 days (with

refrigeration)

Ethylene producer

Odor-sensitive

Odor producer

Moderately sensitive to freezing injury

Apples are incredibly sensitive. Therefore, do not dump apples into the display and handle carefully to avoid bruising.

Apples that are atmosphere controlled should be refrigerated at the proper temperature at all times to avoid becoming too mealy

Export Packaging

50-lb. field crates

40-45 lb. cartons/boxes, tray packed

40-lb/ bushel baskets/cartons, tray or cell-packed

40-lb. bushel baskets/cartons, loose

40-lb. 11/8-bushel cartons, loose pack

40-lb. cartons, 10 4-lb, film bags

40-lb. cartons, 16-8s tray-wrapped

40-lb. Cartons, 8 5-lb bags

38-42-lb. cartons/boxes, loose pack

37-43-lb. cartons, cell-packed

36 lb.-cartons, 12 3-lb. Bags

20 lb 1/2-bushel cartons, loose

3-,5-,6-,7-,8-, 101b-Polyethylene or cello bags

Tri-wall bins

600 1b. Tote bin, 300-lb. Half tote bin

Washington State Grades

Washington Extra Fancy: Washington Fancy-required to be higher in quality than U.S. Extra Fancy and U.S. Fancy.

Quality and Receiving

Avoid fruit with bruises, which result in decay spot. If picked before ripe, flavor will be lost. Over mature apples will be mushy and won't have the crunch of a firm apple. The best fruit is firm with full color and smooth, clean skin.

For more information, please contact FAS' industry partners:

Washington State Apple Commission

2900 Euclid Avenue

Wenatchee, WA 98807-0018

Phone: (509) 663-9600 Fax: (509) 662-5824 www.bestapples.com U.S. Apple Export Council /U.S. Apple Assn

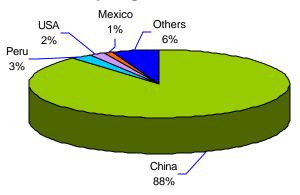
6707 Old Dominion Drive

Suite 315

McLean, VA 22101-4503 Phone: (703) 556-9300 Fax: (703) 556 -9301

Asparagus Production

World Asparagus Production 2004



In Metric Tons							
China	5,806,200						
Peru	186,000						
USA	122,020						
Mexico	67,247						
Others	390,465						
Total World	6,571,932						

Source: Food and Agriculture Association (FAO) of the United Nations

Asparagus Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Dark Green												
California												
Michigan												
Washington												

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mexico												
Chile												
Peru												
Spain												

Asparagus Handling

Grades Available U.S. Grades No. 1 No. 2 Washington Grades Washington XF (Extra Fancy)

Export Packaging
30 lb. Pyramid cartons/crates, bunched and loose
28 lb. cartons/crates, bunched
25 lb. lugs/cartons, loose
24-25 lb. cartons, 16 l 1/2-packages
21 lb. lugs/cartons, loose
20 lb. 1/2-pyramid carton
20 lb. cartons, bunched

Handling and Storage

Export Packaging
15-17 lb. 1/2 pyramid cartons/crates, loose or bunched
15-lb. cartons, loose or bunched
14-lb. cartons
12-lb. 1/2 cartons
12-13 ½-lb. 1/3 cartons/crates, bunched
11-lb. cartons/crates

Temperature:
37-41° F, 2.85-5° C
Relative Humidity: 95-100%
Mist: Light
Typical Shelf Life: 10-21 days
Highly sensitive to freezing injury

In most cases, asparagus is usually stored for less than 10 days. In the event that the product is to be stored longer than that, store at 35 F to avoid low-temperature damage.

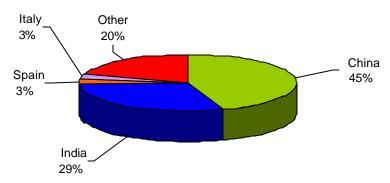
Quality and Receiving

Fresh asparagus will not maintain quality and texture unless low temperatures are preserved. At room temperature, flavor will be lost and the asparagus will soften. High quality asparagus should be firm and fresh, with closed, tight tips and a full green color. The green portion should be tender. To keep asparagus in the highest quality, the stems should be immersed in the water for display upon delivery.

For more information, please contact FAS' industry partners: California Asparagus Commission 311 E. Main St., Suite 204 Phone: (209) 474-7581 Fax: (209) 474-9105 Phone: (925) 838-5454 Fax: (925) 838 www.calasparagus.com

Broccoli Production

World Broccoli and Cauliflower Producton 2004



In Metric Tons						
China	7,334,500					
India	4,800,000					
Spain	493,600					
Italy	487,391					
Other	3,258,634					
Total World	16,374,125					

Source: Food and Agriculture Association (FAO) of the United Nations

Broccoli Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arizona												
California	P	P	P	P	P	P	P	P	P	P	P	P
Texas												

P = Peak

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canada												

Broccoli Handling

Grades Available U.S. Fancy

U.S. Combinations

U.S. No. 2

U.S. No. 1

Handling and Storage

Temperature: 32° F, 0° C

Relative Humidity: 95-100%

Mist: Lightly

Typical Shelf Life: bunched 10-14 days, packaged 14-16

days

Ethylene sensitive

Moderately sensitive to

freezing injury

Packaging

Bunched: 23-lb.

cartons/crates, 14s and 18s

Crowns: 20-lb box, bulk

Consumer Packs: florets, bunch, coleslaw, spears, and

stalk cuts.

Value-added Packs: forests – 9to 18 lb cartons and 8-oz and 1-lb retail packs.

Spears – 10, 15, 20 lb loose packed cartons. Florets available in 3-lb cello bags and loose. Coleslaw available in 8-oz and 1 and 5 lb bags. Iceless broccoli is available.

For more information, please contact FAS' industry partners:

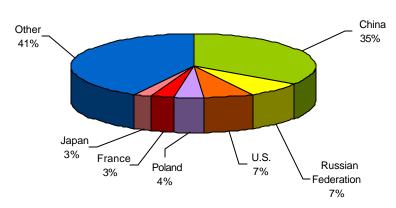
Western Growers Association PO Box 2130

Newport Beach, California 92658

Phone: (949) 885-2267 Fax: (949) 8639028 www.wga.com

Carrot Production

World Carrot Producton 2004



In Met	cric Tons
China	8,292,500
Russian Fed.	1,762,040
U.S.A.	1,601,790
Poland	927,900
France	703,218
Japan	660,000
Other	10,024,093
Total World	23,971,541

Source: Food and Agriculture Association (FAO) of the United Nations

Carrot Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
California	P	P	P	P	P	P	P	P	P	P	P	P
Georgia												
Michigan							P			P	P	
Texas												

P = Peak

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canada												
Mexico												

Carrot Handling

Grades Available U.S. extra No. 1 U.S. No. 1 U.S. No-1 jumbo U.S. No. 2

Handling and Storage
Temperature: 33-36° F, 0.6-
1.7° C
Relative Humidity: 98-100%
Mist: Lightly
Shelf Life: 28-180 days
Ethylene sensitive
Odor sensitive
Odor producer

Shipping
Master Cellos
50-lb. table cartons
48-lb. poly bags
25-lb. table poly bags
24 2-lb. poly bags
12 2-lb. poly bags
5 10-lb. poly bags
16 3-lb. poly bags
16 3-lb. poly bags
Bunched: 26-lb. cartons
Baby-peeled
24 1-lb. bags
20 1-lb. bags
12 2-lb. bags
10 2-lb. bags
85-lb. bags
45-lb. bags
20-2 lb. bags
40 1-lb. bags
72 3-oz bags
50 and 25 lb. ply jumbo
30 12-oz bags
Consumer Packs
1, 2, 3, 5, and 10 lbbags

For more information, please contact FAS' industry partners:

Western Growers Association

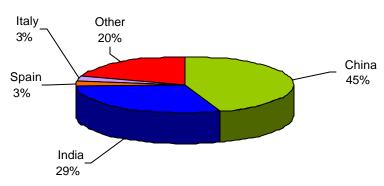
PO Box 2130

Newport Beach, California 92658

Phone: (949) 885-2267 Fax: (949) 8639028 www.wga.com

Cauliflower Production

World Broccoli and Cauliflower Producton 2004



In Meta	ric Tons
China	7,334,500
India	4,800,000
Spain	493,600
Italy	487,391
Other	3,258,634
Total World	16,374,125

Source: Food and Agriculture Association (FAO) of the United Nations

Cauliflower Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arizona												
California	P	P	P	P	P	P	P	P	P	P	P	P
Green Cauliflower												
California	P	P	P	P	P	P	P	P	P	P	P	P

P = Peak

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canada												
Green Cauliflower												
Canada												

Cauliflower Handling

Grades Available	Handling and Storage	Shipping
U.S. No. 1	Temperature: 32° F, 0° C	60-lb. Long Island wire
	Relative Humidity: 90-98	bound crates.
	percent	50-lb. Catskill cartons
	Mist: lightly	25 to 30 lb. cartons, 12 and
	Shelf life: 2 to 3 weeks	16 film wrapped trimmed
	No quality difference between large and small heads if equally mature. Slightly granular appearance is acceptable if heads are not spreading.	heads
	Store butts down to prevent moisture accumulating on curds.	

For more information, please contact FAS' industry partners:

Western Growers Association

PO Box 2130

Newport Beach, California 92658

Phone: (949) 885-2267 Fax: (949) 8639028 www.wga.com

Celery Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California	P	P	P	P	P	P	P	P	P	P	P	P
Florida												
Michigan												
Texas												

P = Peak A = Available

Celery Handling

Grades Available	Handling and Storage	Shipping
U.S. Extra No. 1	Temperature: 32 to 36° F, 0 to	50-60 lb. cartons
U.S. No 1	1.7° C	Hearts
U.S. No. 2	Relative Humidity: 90-95	28-lb. cartons
Not all celery is graded.	percent	18-lb. cartons
Ungraded celery is called	Mist: yes	Foodservice packs
"unclassified."	Shelf life: 14 – 28 days from	Whole product is packed
_	harvest. 3 to 5 days in store.	according to size, 18-48
	Odor sensitive	count. Hearts come in 12,
	Odor producer	18 and 24 count. Celery is
	Fresh-cut	available diced, sliced, and as sticks in various packs.
	Store at 34° F, 1.1° C and	
	keep sealed until used.	

For more information, please contact FAS' industry partners:

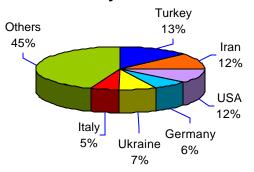
Western Growers Association PO Box 2130

Newport Beach, California 92658

Phone: (949) 885-2267 Fax: (949) 8639028 www.wga.com

Cherry Production

World Cherry Production 2004



In Meta	ric Tons
Turkey	255,000
Iran	220,000
USA	220,000
Germany	120,000
Ukraine	140,000
Italy	100,000
Others	841,522
Total World	1,896,522

Source: Food and Agriculture Association (FAO) of the United Nations

Cherry Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bing				CA	CA	CA/NW	NW	NW				
Brooks				CA	CA							
Burlat					CA							
Chelan						NW						
Lambert					CA	CA	NW	NW				
Lapins							NW	NW				
Rainier					CA	CA/NW	NW	NW				
Skeena							NW	NW				
Sweetheart								NW				
Tieton						NW						
Tulare				CA	CA							

CA= California

NW= Idaho, Oregon, Utah, and Washington

Competitors¹

					compe	61601 B						
Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Australia												
New Zealand												
Chile												
Europe ²												
China/Japan ³												

¹The availability months for competitors include all types of cherries produced.

²Europe includes the countries of France, Turkey, Greece, Spain, and Italy.

³China and Japan produce only limited amounts of cherries and do not export them.

Cherry Handling

Grades Available

U.S. No 1

U.S. Commercial

Handling and Storage

Temperature: 32° F, 0° C Relative Humidity: 90-95%

Mist: No

Typical Shelf Life: 10-21 days

Odor -sensitive

Poly liners should be slit when product is received to eliminate gas buildup and off-flavors. Open the lids of cherry boxes stored in the cooler; good air circulation will slow spoilage.

Cherries should be handled carefully at all stages of production and through the retail level to avoid bruising.

Don't break cherry stems. Cherries with stems have a greater shelf life than those without

Phone (509) 453-4837

www.nwcherries.com

Export Packaging

32-1b. crates, 16 1-quart baskets

20-1b. lugs/cartons (Northwest)

18-1b. lugs/cartons(Calif.)

12-1b. cartons (Northwest)

Quality and Receiving

Avoid fruit that is leaky, sticky and shows signs of decay. Immature fruit generally will be hard, smaller, more acidic and dry, with a lighter color than ripe cherries. Over mature fruit will be soft, dull and shriveled

Good quality cherries will be fresh, firm, juicy, well matured, and well colored for the variety. It is normal for Rainier cherries to have some skin discoloration, slight scuffing, or brown spotting and it often indicates high sugar content. Cherries that are mahogany or reddish brown are considered to be the most flavorful.

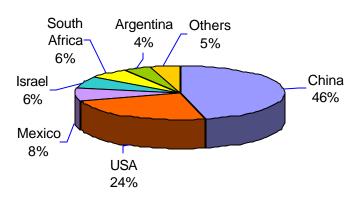
For more information, please contact FAS' industry partners:

Northwest Cherry Growers 105 South 18th Street #205 Yakima, Washington 98901 California Cherry Advisory Board 33 East Oak Street P.O. Box 877

Lodi, CA 95241
Phone: (209) 368-0685
Fax: (209) 368-4309
www.calcherry.com

Grapefruit Production

World Grapefruit Production 2004/05



In 1,000 M	letric Tons
China	1,724
USA	894
Mexico	310
Israel	239
South Africa	230
Argentina	160
Others	175
Total World	3,732

Source: Food and Agriculture Association (FAO) of the United Nations

Grapefruit Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California & Arizona (Sunkist)	M	M	M	M	M	P	P	P	P	P	M	M
Marsh Ruby (red)												
Marsh Seedless (white)												
Pummelos												
Rio Red (red)												
Ruby (red)												
Star Ruby (red)												
Florida	P	P	P	P	P	M			L	M	P	P
Flame (red)												
Marsh Seedless (white)												
Ruby (red)												
Texas	P	P	M	L	L					L	M	P
Flame (red)												
Henderson (red)												
Ray (red)												
Rio Star (red)												
Ruby (red)												
Star Ruby (red)												

P=Peak M=Moderate L=Low

Competitors

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Cuba												
Israel												
Mexico												
Turkey												

Grapefruit Handling

Grades	s Available	Handling and Storage
	Texas and other	Temperature:
Florida	States	
U.S. Fancy	U.S. Fancy	Calif, and Ariz: 50-55° F, 10-12.8° C
U.S. No. 1 Bright	Texas Fancy	Fla. & Texas: 50-60° F, 10-15.8°C
U.S. No. 1	U.S. No. 1 Bright	Relative Humidity: 85-90%
U.S. No. 1 Golden	U.S. No. 1	Mist: No
U.S. No. 1 Bronze	U.S. No. 1 Bronze	Typical Shelf Life: 28-42 days
U.S. No. 1 Russet	U.S. Combination	Moderately sensitive to freezing injury
U.S. No. 2 Bright	Texas Choice	Susceptible to chilling injury
U.S. No. 2	U.S. No. 2	
U.S. No. 2 Russet	U.S. No. 2 Russet	Long storage can cause damage to fruit. Decay and rind breakdown may occur as well as stem-end rot, especially from crops grown in the
U.S. No. 3	U.S. No. 3	Gulf States. Florida fruit that has been degreened with ethylene can be
California and		handled normally. Lower humidity levels can contribute to rind breakdown.
Arizona		ordando min
U.S. No. 2		

Export Packaging

U.S. Combination

U.S. No. 3

21-2- lb. plain pack cartons/bags/lungs (California)

19 lb. cartons/bags/ lugs (California)

18 lb. cartons/bags/lugs

16 lb. cartons/bags/lugs (California)

Quality and Receiving

Grapefruit should feel heavy. The heavier the grapefruit, the juicier it is. The grapefruit should be firm but should give a little when placing pressure. This ensures the fruit will be juicy and not dry. Select grapefruit with a shiny skin because rough skin indicates dry fruit.

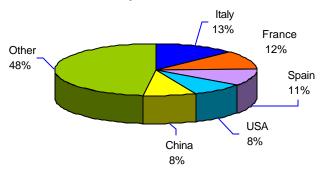
For more information, please contact FAS' industry partners:

Florida Department (Of Citrus	Sunkist Gr	owers (Ca. &	Az.)				
1115 E. Memorial Boul	evard	14130 Riverside Drive						
			aks, CA 91423-					
Lakeland, FL 33802-01	48	2392						
Mailing Address:		Mailing Ad	dress:					
P.O. Box 148		P.O. Box 78	388					
Lakeland, FL 33802-01	48	Van Nuys,	CA 91409					
Phone: (863) 499-2500		Phone: (81	8) 379-7340					
		Fax: (818) 379-						
Fax: (863) 499-2548		7511						
www.floridajuice.com		www.sunki	st.com					
Texas Pr	oducer Export Ass	oc.						
901 Busin	ess Park Drive, Suite	500						
Mission,	ΓX 78572							

Mission, TX 78572 Phone: (956) 581-8632 Fax: (956) 584-3307 www.texasweet.com

Grape Production

World Grape Production 2004



In Meta	ric Tons
Italy	8,400,000
France	7,800,000
Spain	6,901,900
USA	5,509,330
China	5,342,500
Other	31,532,505
Total World	65,486,235

Source: Food and Agriculture Association (FAO) of the United Nations

Grape Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Green Grapes												
Calmeria												
Perlette												
Sugraones												
Thompson Seedless												
Red Grapes												
Christmas Rose												
Crimson Seedless												
Emperatriz												
Emperor												
Flame Seedless												
Premium Red												
Red Globe												
Rouge												
Ruby Seedless												
Black/Blue Grapes												
Exotic												
Fantasy Seedless												
Niabell												
Ribier												

California produces 97 percent of the fresh table grapes in the United States.

Competitors

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Chile												
India/China												
South Africa												
Turkey												

Grape Handling

Grades Available

U.S. Extra Fancy Table

U.S. Extra Fancy Export

U.S. Fancy Table

U.S. Fancy Export

U.S. No. 1 Table

U.S. No. 1 Institutional Pack

Quality and Receiving

Grapes that are wrinkled, soft, wilted, shriveled, or leaking should be avoided. Choose grapes that are full in color, plump, and firmly attached to the stem.

Green or white grapes are at their best if they have yellow cast or straw color with a bit of amber. Red grapes are at their peak if they are almost fully red in color. The darker varieties should not have any hint of green.

Handling and Storage

Temperature: 30-32° F, (-1) - 0° C

Relative Humidity: 85%

Mist: No

Typical Shelf Life: 56-180 days

Odor Producer

Odor Sensitive

Moderately sensitive to freezing injury.

Minimize shatter by loosing the lid of the lug. Hold the lid on top while turning the lug upside down. Carefully remove the lug. The grapes will stay in place if the lug is lined. The grapes will fall freely after the liner is removed.

Export Packaging

21-2-lb. plain pack cartons/bags/lugs (California.)

19 lb. cartons /bags/lugs (California.)

18 lb. cartons/bags/lugs

16 lb. cartons/bags/lugs (California)

For more information, please contact FAS' industry partners:

California Table Grape Commission

392 W. Fallbrook Ave.

Suite 101

Fresno, California 93729-7320

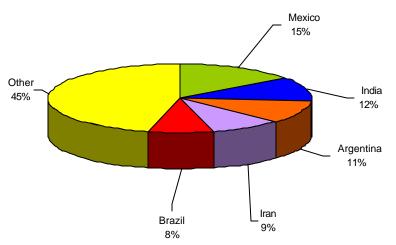
Mailing Address:

P.O. Box 27320

Fresno, CA 93729-7320 Phone: (559) 447-8350 Fax: (559) 447-9184 www.tablegrape.com

Lemon Production

World Lemon and Lime Producton 2004



In Metr	ric Tons
Mexico	1,824,890
India	1,420,000
Argentina	1,300,000
Iran	1,100,000
Brazil	1,000,000
Other	5,674,605
Total World	12,319,495

Source: Food and Agriculture Association (FAO) of the United Nations

Lemon Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arizona												
California	P	P	P	P	P	P	P	P	P	P	P	P

P = Peak

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Chile												
Spain												

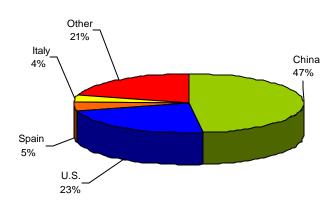
Lemon Handling

Grades Available	Handling and Storage	Shipping
U.S. No. 1	Temperature: 45-48° F, 7.2-8.9°	42-lb. 4/5 bushel cartons
U.S. Export No. 1	C	38-lb. cartons (Arizona and
U.S. combination	Relative Humidity: 85-90	California)
U.S. No. 2	percent	36-lb. cartons/crates (Chile, Spain)
	Mist: lightly	
	Shelf life: several weeks if properly refrigerated	
	Odor producers	
	Highly sensitive to freezing injury	
	Susceptible to chilling injury	
	Lemons can store for 1–5	
	months	

Sunkist Growers (Calif. &	
Arizona)	California Citrus Mutual
14130 Riverside Drive	512 North Kaweah Avenue;
Sherman Oaks, CA 91423-2392	Exeter, CA 93221
Mailing Address:	Phone: (559) 592-3790
P.O. Box 7888	Fax: (559) 592-3798
Van Nuys, CA 91409-7888	http://www.cacitrusmutual.com
Phone: (818) 379-7340	
Fax (818) 379-7492	
www sunkist com	

Lettuce Production

World Lettuce Producton 2004



In Meti	ric Tons
China	10,505,000
U.S.A.	4,976,880
Spain	1,044,200
Italy	830,580
Other	4,528,737
Total World	21,885,397

Source: Food and Agriculture Association (FAO) of the United Nations

Lettuce Availability

United States

Location	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Arizona	P	P	P								P	P	
California	P	P	P	P	P	P	P		P	P	P	P	
Colorado													
Florida													
New Mexico													
Washington													
Boston/Bibb. Butterl	Boston/Bibb. Butterhead												
Arizona	P	P	P										
California	P	P	P	P	P	P	P	P	P	P	P	P	
Florida													
Leaf													
Arizona	P	P	P										
California	P	P	P	P	P	P	P	P	P	P	P	P	
Florida												_	
Washington													

P = Peak

Competitors

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Mexico												
Boston/Bibb/Butterhead												
Leaf												

Lettuce Handling

Grades Available

U.S. Fancy
U.S. No. 1
U.S. No. 2
Greenhouse leaf
lettuce is subject to

the grades U.S. fancy

and U.S. no. 1

Handling and Storage

Temperature: 34-36° F, 1.1-2.2° C

Relative Humidity: 90-100

percent

Mist: lightly

Shelf life: 14 to 21 days; fresh cut,

14 days

Highly sensitive to freezing injury

	Shipping
Iceberg	

50-lb. cartons, 18, 24, 30 count

30-lb. cartons

20-lb. cartons, 15 and 16 count

Boston

22-lb. 1.5 bushel crates

20-lb. carton/crates, 24-count

10-lb. flat cartons/crates

5-lb. baskets/cartons, 12-quart

Bibb

10-lb. flat cartons/crates

5-lb. baskets/cartons, 12-quart

Loose Leaf

25-lb. carton/crates

20-lb. 4/5 bushel crates

14-lb. 1 1/9 bushel crates

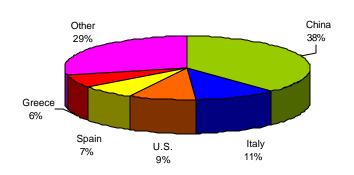
10-lb. basket/cartons, 24-quart

3-lb. cartons

2-lb. cartons

Nectarine Production

World Peach and Nectarine Producton 2004



In Met	ric Tons
China	5,832,000
Italy	1,672,609
U.S.A.	1,390,000
Spain	1,106,900
Greece	955,000
Other	4,418,044
Total World	15,374,553

Source: Food and Agriculture Association (FAO) of the United Nations

Nectarine Availbility

United States

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California							P	P	P	P		
Washington							P	P				

P = Peak

	C 0111P 011012											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Chile	P	P										

Nectarine Handling

Grades Available

U.S. Fancy

U.S. Extra No1

U.S. No 1

U.S. No2

Handling and Storage

Temperature: $31-32^{\circ}$ F, $-0.6-0^{\circ}$ C

Relative Humidity: 90-95 percent

Mist: No

Shelf life: 14 to 21 days

Holding nectarines at room temperature for two to three days is usually enough to complete the ripening process. Ripening at 65°F (18.3°C) is optimum, but a range of 51-77°F (10.6-25°C) is safe.

Susceptible to dehydration. Store and display away from drafts.

Russeting or staining of skin does not detract from internal quality.

Shipping

5-lb. cartons, loose

25-lb. cartons or ½-bushel

cartons, loose

22-lb. cartons/lugs, 2-layer tray

pack

18-lb. cartons/lugs, 2-layer tray-

pack (Chile)

9-lb. cartons, 1 layer

Consumer Packs

Small-sized nectarines packed in bags, commonly 2 lbs in

weight.

For more information, please contact FAS' industry partners:

California Tree Fruit Agreement PO Box 968

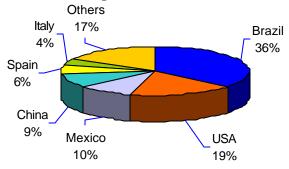
975 "I" Street

Reedley, CA 93654-0968 Phone: 800-636-8260

Fax: 559-638-8842

Orange Production

World Orange Production 2004/05



In 1,000 M	Ietric Tons
Calendar Year	2004
Brazil	16,402
USA	8,535
Mexico	4,400
China	4,200
Spain	2,700
Italy	1,900
Other	7,753
Total World	45,890

Source: Food and Agriculture Association (FAO) of the United Nations

Orange Availability

United States

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California & Arizona (Sunkist)											
P	P	P									
				P	P	P					
Texas											
P										P	P
	P	P P	ona (Sunkist) P P P	ona (Sunkist) P P P P	ona (Sunkist) P P P P	ona (Sunkist) P P P P P	ona (Sunkist) P P P P P P P P P P P P P P P P P P P	ona (Sunkist) P P P P P P P P P P P P P P P P P P P	ona (Sunkist) P P P P P P P P P P P P P P P P P P P	ona (Sunkist) P P P P P P P P P P P P P P P P P P P	ona (Sunkist) P P P P P P P P P P P P P P P P P P P

P=Peak

Other Producers

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Australia												
Mexico												

Orange Handling

Grades Available
U.S. Fancy
U.S. No. 1
U.S. No. 1 Bright
U.S. No. 1 Golden
U.S. No. 1 Bronze
U.S. No. 1 Russet
U.S. Combination
U.S. No. 2
U.S. No. 2 Bright
U.S. No. 2 Russet
U.S. No. 3
Texas Choice

Quality and Receiving

Good quality product should be firm, heavy for its size, well colored, and reasonably finetextured for the variety. Florida and Texas oranges frequently are subject to russeting. However, quality is not affected. Avoid oranges that are light, puffy, or spongy because they lack juice. Soft surface areas that are watersoaked in appearance and may break under slight pressure indicate decay. Also, age or injury may cause fruit to be wilted, shriveled, or flabby. The seedier the orange, the less edible pulp and juice it has.

Handling and Storage
Temperature:
Florida: 32-34° F, 0-1.1° C
California : 45-48° F, 7.2-8.9° C
Arizona & Texas: 32-48° F, 0-8.9° C
Relative Humidity: 85-90%
Mist: No
Typical Shelf Life:
Arizona & California: 21-56 days
Florida, Texas: 56-84 days (with proper refrigeration)
Odor producer

Moderately sensitive to freezing injury

Early Florida oranges are not stored

kept only as needed to allow orderly

except as relates to shipping. Valencias

can be stored to some extent; navels are

Susceptible to chilling injury

Export Packaging
50-lb. cartons, 5 10-lb. film bags
48-lb. cartons, 6 8-lb. film, bags
43-lb. 4/5-bushel cartons/crates
40-lb. 7/10-bushel cartons (Texas)
40-lb. cartons, 8 5-1b. Film bags
38-lb. cartons (Ariz, Calif)
4 10-lb. bags
58-lb. bags
10 4-lb. bags

For more information, please contact FAS' industry partners:

Sunkist Growers (Calif. & Arizona)

14130 Riverside Drive

Sherman Oaks, CA 91423-2392

Mailing Address: P.O. Box 7888

marketing

Van Nuys, CA 91409-7888

Phone: (818) 379-7340 Fax (818) 379-7492 www.sunkist.com

Texas Produce Export Association

901 Business Park Dr., Suite 500

Mission, TX 78572 Phone: (956) 581-8632 Fax: (956) 584-3307 www.texasweet.com Florida Department of Citrus

1115 E. Memorial Boulevard

Lakeland, FL 33802-0148

Mailing Address: P.O. Box 148

Lakeland, FL 33802-0148 Phone: (863) 499-2500 Fax: (863) 499-2548 www.floridajuice.com

California Citrus Mutual

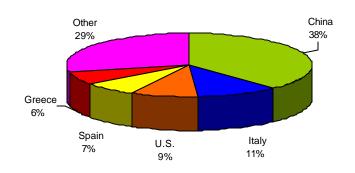
512 North Kaweah Avenue;

Exeter, CA 93221 Phone: (559) 592-3790 Fax: (559) 592-3798

http://www.cacitrusmutual.com

Peach Production

World Peach and Nectarine Producton 2004



In Meta	ric Tons
China	5,832,000
Italy	1,672,609
U.S.	1,390,000
Spain	1,106,900
Greece	955,000
Other	4,418,044
Total World	15,374,553

Peach Availability

United States

Location	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California				A	A	P	P	P	P	A	A	
Georgia				A	A	P	P	A	A			
Idaho								A	A			
Michigan							A	P	A			
New Jersey							A	P	A			
South Carolina					A	P	P	A	A			
Washington							A	A	P	A		

 $P = Peak \quad A = Available$

Peach Handling

Grades Available

U.S. Fancy

U.S. extra No. 1

U.S. No. 1

U.S. No. 2

Handling and Storage

Temperature: shipping; 32-34° F, 0-1.1° C; receiving point 51-77°F, 10.6-25°C

Relative Humidity: 90-95 percent

Mist: No

Shelf life: 14–21 days
Ethylene producer

Highly sensitive to freezing

Shipping

38-lb. 3/4 bushel cartons/ crates

35-lb. cartons

26-lb. cartons, loose

25-lb. ½ bushel cartons/ crates

22-lb. cartons, 2-layer tray pack

18-lb. cartons/lugs, 2-layer

(Chile)

11-lb. crates/flats, 1-layer tray

pack

10-lb. cartons

9-lb. cartons, 1-layer

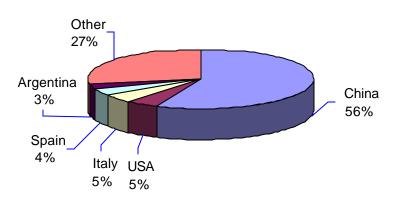
For more information, please contact FAS' industry partners:

California Tree Fruit Agreement PO Box 968 975 "I" Street

Reedley, CA 93654-0968 Phone: 800-636-8260 Fax: 559-638-8842

Pear Production

World Pear Production 2004



In Metric Tons								
China	10,120,000							
USA	823,760							
Italy	820,000							
Spain	656,500							
Argentina	509,749							
Other	4,979,487							
World Total	17,909,496							

Source: Food and Agriculture Association (FAO) of the United Nations

Pear Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California Varieties												
Bartlet ¹												
Northwest ²												
Green Anjou												
Red Anjou												
Red Bartlett												
Yellow Bartlett												
Bosc												
Comice												
Forelle												
Seckel												

¹ Bartlett pears are known as Williams pears outside the United States.

				~ ~P								
Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Argentina												
Chile												
South Africa												

² The Northwest includes the states of Oregon and Washington.

Pear Handling

Grades Available U.S. Grades Summer, fall, and winter pears: U.S. No. 1 U.S. Combination U.S. No. 2 Northwest Grades Extra Fancy

U.S. No. 1 U.S. No. 2

Quality and Receiving

Scars and other minor blemishes on the skin are normal and will not affect quality. Bartletts will turn yellow and give off an aroma when ripe. Winter pears do not change color and pressure should be applied with the thumb to verify ripeness. Retailers can cover pallets of green pears with canvas, holding in heat and gas without causing the fruit to deteriorate.

Handling and Storage
Temperatures:
Ripe: 32° F, 0° C
To ripen: 60-70° F, 15.6-21.1° C
Relative Humidity: 90-95%
Mist: No
Typical Shelf Life: 60-90 days
Ethylene producer
Odor-sensitive
Odor producer

Moderately sensitive to freezing injury. The best flavor and texture develop when pears are ripened off the tree. They are picked unripe, but mature. Fruit allowed to ripen on the tree develops a coarse, woody, or gritty texture.

When ripenened, avoid excessive heat. Temperatures above 80 F (26.7 C) can cause damage to flavor and appearance

Export Packaging
48-lb. bushel baskets/cartons/crates
46-lb. 4/5 -bushel boxes/cartons (Calif.)
44-lb. 4/5-bushel boxes/cartons (Northwest).
40-lb. boxes/cartons
36-lb. cartons
28-lb. cartons
23-lb. 1/2 cartons/lugs (Calif./Northwest)
14-lb. cartons

For more information, please contact FAS' industry partners:

California Pear Advisory Board

1521 I Street

Sacramento, CA 95814 Phone: (916) 441-0432

Fax: (916) 446-

1063

www.calpear.com

Pear Bureau Northwest

4382 SE International Way

Suite A

Milwaukie, OR 97269-2026

Phone: (503) 652-9720

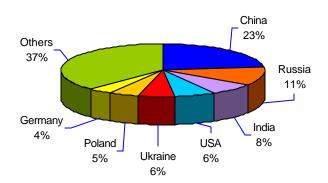
Fax: (503) 652-

9721

http://usapears.com

Potato Production

World Potato Production 2004



In Metr	ric Tons
China	75,048,000
Russia	37,000,000
India	25,000,000
USA	20,419,280
Ukraine	19,450,000
Poland	15,000,000
Germany	12,991,076
Other	123,092,580
Total World	328,865,936

Source: Food and Agriculture Association (FAO) of the United Nations

Potato Availability

United States

Varieties	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Russets												
Yellows												
Reds												
Whites												

				Con	прсию	1.5						
Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Australia												
Canada												
Netherlands												
New Zealand												

Potato Handling

Grades Available

U.S. Extra No. 1

U.S. No. 1

U.S. Commercial

U.S. No. 2

Quality and Receiving

Avoid potatoes with wrinkled or wilted skins, cut surfaces, soft dark areas, and those with a green appearance. Potatoes should not be sprouting. The potatoes with good color and few holes will be best in quality. For Russet Burbanks, seek out potatoes with net-textured skin, oval shape, and a russet brown color. Select potatoes that are firm, smooth, and fairly clean. Those with more irregular shapes will produce less waste when peeled

Handling and Storage

45-50° F, 7.2-10° C (temperature)

Relative Humidity: 90%

Mist: Light

Typical Shelf Life: 30 days

Odor sensitive

Odor producer

Highly sensitive to freezing injury.

Susceptible to chilling injury.

Avoid exposure to light. 75% of the fall crop is usually stored in farm or commercial warehouses. Early and summer harvested potatoes are not usually stored long term.

When using a sprout inhibitor, a temperature of 45° F (7.2° C) is required. Storing at below 40° F (4.4° C) for prolonged time can cause the potatoes to develop a sweet flavor. Warmer temperatures induce sprouting and shriveling. Sprouted potatoes can still be used as long as the sprouts are removed and the potatoes are peeled.

Export Packaging

(including table, shipper, and seed)

100-lb. sacks

50-lb. carton/sacks

50-lb. baled, 5 10-1b, or 10-5-1b.

Most common retail sizes are 60-, 70-, 80-, 90-, and 100-count cartons.

For more information, please contact FAS' industry partners:

National Potato Promotion Board

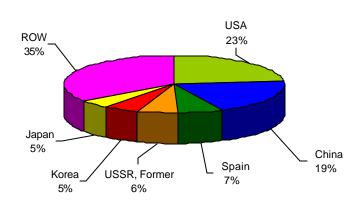
7555 East Hampden Avenue Building #1, Suite 412

Denver, CO 80231 Phone: (303) 369-7783

Fax: (303) 369-7718 www.uspotatoes.com

Strawberry Production

World Strawberry Producton 2004



In Metr	ric Tons
USA	1,004,110
China	840,000
Spain	286,300
USSR, Former	273,000
Korea	210,000
Japan	205,000
ROW	1,500,814

Source: Food and Agriculture Association (FAO) of the United Nations& FAS Attaché Reporting

Strawberry Availability

United States

Locations	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California			P	P	P	P	P	P	P			
Florida		P	P									
North Carolina												

P= Peak

					petito							
Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canada												
Chile												
Italy												
Japan												
Mexico												
Poland												
Spain												

Strawberry Handling

Grades Available

U.S. No. 1

U.S. Combination

U.S. No. 2

Handling and Storage

Temperature: 32-34° F, 0° C Relative Humidity: 90-95%

Mist: No

Typical shelf life: 5-7 days

Highly sensitive to freezing injury

Brief storage is absolutely necessary for maintaining quality product. After a few day in storage, strawberries will begin to lose coloring and flavor and may shrivel.

Strawberries are perishable and require careful handling. They must be kept cold at all times. Do not wash strawberries for display, moisture causes them to break down.

Export Packaging

12 lb. flats. 12 1-pint containers

12 lb. flats, 6 quarts

12 10-oz clamshells

12 8-oz clamshells

12 8.8-oz clamshells

8.8-oz. long stem clamshells

4 16-oz. long stem clamshells

9 lb. crates, 8 16-oz. clamshells

5 lb. 1/2 trays

4 2-lb. clamshells

Quality and Receiving

Quality characteristics are indicated by fresh and clean berries. Look for berries with bright and solid red coloring with very little green or white. Select berries with caps in place and no mold, moisture or damage on the berries.

For more information, please contact FAS' industry partners:

California Strawberry Commission

41 Hangar Way

Watsonville, CA 95077 Phone (831) 724-1301

Fax: (831) 724-5973

For Additional information:

JEVCO

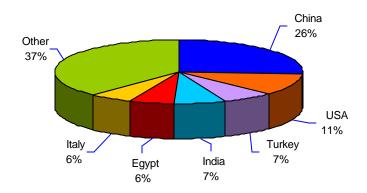
Jean Valentine

Phone: (925) 838-5454

Fax: (925) 838-2311 Email: jevco@aol.com

Tomato Production

World Tomato Production 2004



In Meta	ric Tons
China	30,142,040
USA	12,400,000
Turkey	8,000,000
India	7,600,000
Egypt	6,780,000
Italy	6,500,000
Others	44,528,811
Total World	115,950,851

Source: Food and Agriculture Association (FAO) of the United Nations

Tomato Availability

United States

States	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
California						P	P	P	P	P		
Florida							P			P		
Michigan												
North Carolina												
South Carolina						P						
Virginia												

P= Peak

Tomatoes are available in the following types: round/globe, vine-ripe/cluster. Roma, cherry, grape, greenhouse, and hydroponic.

Most states grow tomatoes, but California and Florida provide about 90% of the nation's upplies.

Competitors

Countries	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Canada												
Mexico	P	P	P	P	P	P						
Europe												

Tomato Handling

Grades Available
Fresh Tomatoes
U.S. No. 1
U.S.
Combination
U.S. No. 2
U.S. No. 3
Greenhouse
U.S. No. 1
U.S. No. 2

Handling and Storage
Temperature:
Mature-green or pink; 62-68° F, 16.7- 20. 16° C
Relative Humidity: 85-95%
Mist: No
Typical Shelf Life:
Mature-green: 21-28 days
Pink: 7-14 days
Do not refrigerate
Highly sensitive to freezing injury
Susceptible to chilling injury
Tomatoes should be handled
extremely delicately to maintain

good tomato quality. Bruising will cause the tomato to damage more quickly. Do not stack more than two levels high and keep the product stem end up to protect tomato

Export Packaging
25-lb. cartons (loose)
22-lb. flats/cartons
3-layer lugs
2-layer lugs
Cherry and Grape
12 1-pint baskets
Green
10-, 20-, and 25- lb. cartons
(loose)
Plum or Roma
25-lb. cartons (loose)
Greenhouse
15-lb. flats (1-layer)
7-kilo flats (1-layer)

Quality and Receiving

The best tomatoes should be firm, smooth, and full in color. The tomato should also weigh heavy for its size. Choose tomatoes that are mature but not overripe and have a good shape. Scars near to the blossom end will not deteriorate flavor. Avoid puffy or watery tomatoes.

For more information, please contact FAS' industry partners:

California Tomato Commission 1625 E. Shaw Ave., Suite 106 Fresno, CA 93710

Phone: (559) 230-0116 Fax: (559) 230-0635 www.tomato.org

shoulders.

Florida Tomato Committee

4401 East Colonial Drive Orlando, FL 32814

Mailing Address: P.O. Box 140635 Orlando, FL 32814 Phone: (407) 894-3071

Fax: (407) 898-4296 www.floridatomatoes.org